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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/688,342	10/17/2003	Tsutomu Ohshimo	03629/LH	2282	
1933 7590 06/29/2007 FRISHAUF, HOLTZ, GOODMAN & CHICK, PC 220 Fifth Avenue 16TH Floor NEW YORK, NY 10001-7708			EXAMINER		
			MARKOFF, ALEXANDER		
			ART UNIT	PAPER NUMBER	
NEW TORK,	NEW YORK, NY 10001-7706		1746		
			. MAIL DATE	DELIVERY MODE	
			06/29/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
		10/688,342	OHSHIMO ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Alexander Markoff	1746			
Period fo	- The MAILING DATE of this communication app r Reply	ears on the cover sheet with the c	orrespondence address			
WHIC - Exten after S - If NO - Failur Any re	DRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DASIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, apply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status	·		•			
1)⊠	Responsive to communication(s) filed on 10 Ap	oril 2007.	•			
·	This action is FINAL: 2b) ☐ This action is non-final.					
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition	on of Claims					
4) 🖂	4)⊠ Claim(s) <u>16-33</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) 🗌	Claim(s) is/are allowed.		·			
6)🖂	Claim(s) 16-33 is/are rejected.					
7)	Claim(s) is/are objected to.					
8) 🗌	Claim(s) are subject to restriction and/or	election requirement.	•			
Application	on Papers	•				
9)[7]	The specification is objected to by the Examiner		·			
	The drawing(s) filed on is/are: a) acce		Examiner.			
	Applicant may not request that any objection to the c					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) 🔲 🗆	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority u	nder 35 U.S.C. § 119					
_	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
;	3. Copies of the certified copies of the priority documents have been received in this National Stage					
	application from the International Bureau	* * * * * * * * * * * * * * * * * * * *				
* S	ee the attached detailed Office action for a list o	of the certified copies not receive	d.			
			•			
Attachment(•	_	•			
	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (Paper No(s)/Mail Dat				
3) 🔲 Inform	ation Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal Pa				
Paper	No(s)/Mail Date	6)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 16-28 are rejected under 35 U.S.C. 102(b, e) as being anticipated by Kobayashi et al (WO 2002/0154187, US 2002/01192055, US 6,772,029).

Kobayashi et al teaches a device as claimed. See entire document, especially Figure 1 and the related description, and columns 3-10.

Kobayashi et al teach processing tanks, a transporting track, transporting devices, a scheduler, buffer stages, drying devices, loading – unloading units, cassettes. The transporting devices are operated as claimed. The scheduler prepares data for controlling the apparatus, including the transporting devices and multiple processing tanks as claimed. The scheduler prepares a schedule using the data entered and in advance, but also accommodates changes accruing in a real time

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processing. The transporting devices are inherently do not operate in the same tank or stage at the same time.

As to the substrate fasteners and movable portions: since the transporting devices move the wafers from the cassettes to the processing units the substrate fasteners and vertical and horizontal portions of the transporting devices are inherently disclosed.

As to the fastener cleaning tanks: the claims do not specify the construction of the tanks, thereby these tanks are readable on any processing tank.

3. Claims 29-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kobayashi et al as applied to claim 16 above, and further in view of Kimura et al (US Patent No 6,161,969).

Kobayashi et al do not teach a shuttle as claimed. It is not clear from the document how unprocessed are moved in the apparatus.

However, the use of shuttles placed above the cassette stage and the transporting apparatuses was known in the art as evidenced by Kimura et al. See at least Figures 1 and 2 and the related description.

It would have been obvious to an ordinary artisan at the time the invention was made to incorporate conventional shuttle of Kimura et al in Kobayashi et la for it's primary purpose disclosed by Kimura et al.

Response to Arguments

4. Applicant's arguments filed 04/10/07 have been fully considered but they are not persuasive.

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et al.

The applicants cancelled previously pending claims and submitted new claims.

The applicants argue that the new claims could not be properly rejected over Kobayashi

The examiner disagrees for the reasons presented in the rejections above.

In contrast to the applicants arguments the transporting devices operate at ranges as claimed. The claims only prohibit placing the transporting device at the same tank together with another transporting device at the same time, but such is inherent because placing two different devices in the same time would cause collision and brage of the apparatus of Kobayashi et al.

The applicants argue that Kobayashi et al do not teach a scheduler as claimed.

The examiner disagrees.

The scheduler of Kobayashi et al prepares data for controlling the apparatus, including the transporting devices and multiple processing tanks as claimed. The scheduler prepares a schedule using the data entered and in advance, but also accommodates changes accruing in a real time processing in multiple tanks.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Markoff whose telephone number is 571-272-1304. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on 571-272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Alexander Markoff Primary Examiner Art Unit 1746

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ALEXANDER MARKOFF PRIMARY EXAMINER

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